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## LISTING OF THE CLAIMS:

Please amend Claims 22 and 23 as shown.

Please add Claims 25-28 as shown.

- 1-21. (Canceled)
- 22. (Currently Amended) A method of reducing atrial fibrillation, comprising: inserting a catheter at least partially into the heart, the catheter having a <u>dual</u> balloon structure, including an outer balloon and an inner balloon contained within the outer balloon, a portion of the <u>dual</u> balloon <u>structure</u> located in the left atrium and a portion of the <u>dual</u> balloon <u>structure</u> located in a pulmonary vein; and

inflating at least the outer balloon with a perfluorocarbon such that an exterior surface of the outer balloon is in contact with at least a partial circumference of the portion of the pulmonary vein adjacent the left atrium, the perfluorocarbon having a temperature in the range of about ~10°C to -50°C.

23. (Currently Amended) The method of claim 22, wherein the <u>dual</u> balloon <u>structure</u> has a working region having a length of between about 5 mm and 10 mm.

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24. (Original) The method of claim 22, further comprising:

inserting a wire capable of rupturing the atrial septum from the femoral vein into the right atrium;

forming a hole using the wire in the interatrial septum between the right atrium and the left atrium;

inserting a guide catheter into the right atrium;

inserting a guide wire through the guide catheter into the right atrium and further into a pulmonary vein;

disposing the catheter over the guidewire into a volume defined by the joint of the right atrium and the pulmonary vein.

- 25. (New) The method of Claim 22, further comprising inflating the inner balloon with a biocompatible liquid.
  - 26. (New) The method of Claim 25, wherein the biocompatible liquid is static.
- 27. (New) The method of Claim 25, wherein the biocompatible liquid contains contrast media.
- 28. (New) The method of Claim 26, wherein biocompatible cooling fluid in the inner balloon chills biocompatible fluid between the dual balloons.